## PATENT COOPERATION TREATY

### From the INTERNATIONAL BUREAU

## **PCT**

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis 3(c) and 72.2)

To:

KÖRFER, Thomas Mitscherlich & Partner Postfach 33 06 09 80066 München ALLEMAGNE RECEIVED ERHALTEN 11 OKT 2008

Mitscherlich & Partne:

	Patent- u. Rechtsanwälte
Date of mailing (day/month/year) 05 October 2006 (05.10.2006)	
Applicant's or agent's file reference P28753/WO Kf	IMPORTANT NOTIFICATION
International application No PCT/EP2004/011352	International filing date (day/month/year) 11 October 2004 (11.10.2004)
Applicant ROHDE & S	SCHWARZ GMBH & CO. KG et al

l	Transmittal	of the	translation	to	the applicant.	
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

### 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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## PATENT COOPERATION TREATY

# **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P28753/WO Kf				FOR FURTHER A	ACTION	See Form PCT/IPEA/416		
Internati	onal app	lication N	lo		International filing d	ate (day/month/year)	Priority date (day/month/year)	
			11.10.200	4	27.10.2003			
	International Patent Classification (IPC) or national classification and IPC							<del></del> ·
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2	This R	EPORT c	onsists of	a total of	8	sheets, includi	ng this cover sheet.	
3.					NEXES, comprising			
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	a. L	sent			to the International B.		sheets as follows	
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sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed as indicated in item 4 of Box No I and the Supplemental								
ĺ	_	_	Box					
	ь	(seni	to the Int	ternational I	Bureau only) a total of	(indicate type and numb	per of electronic carrier(s))	
							containing a sequence listing and/or t	tables
	related thereto. in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4	4 This report contains indications relating to the following items:							
	$\boxtimes$	Box No	ī	Basis of the	report			
	Ħ				report			
	Box No. II Priority							
	님	Box No	. III	Non-establi	shment of opinion wit	h regard to novelty, inve	ntive step and industrial applicability	
	Ш	Box No	IV	Lack of unit	y of invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					lity;		
		Box No	VI	Certain doc	uments cited			
		Box No	. VII	Certain desc	ects in the internationa	d application		
		Box No	. VIII	Certain obs	ervations on the interr	national application		
Date of	submiss	ion of the	demand			Date of completion of	this report	
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Facsim	ile No					Talanham, Na		

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No
PCT/EP2004/011352

Box	No. I	Basis of the report					
1.		regard to the language, this report is based on the internaticated under this item	onal application in the language in	which it was filed. unless otherwise			
		This report is based on translations from the original langu which is the language of a translation furnished for the pur					
	international search (Rule 12.3 and 23.1(b))						
		publication of the international application (Rule 12	4)				
		international preliminary examination (Rule 55 2 and					
2.	recei	regard to the <b>elements</b> of the international application, thi iving Office in response to an invitation under Article 14 a report):					
	$\mathbb{H}$	the international application as originally filed/furnished					
		the description:					
		pages 1-11		as originally filed/furnished			
		pages*	received by this Authority on				
		pages*	received by this Authority on				
	$\boxtimes$	the claims:					
		nos.		as originally filed/furnished			
		nos *	as amended (togethe				
		nos.* 1-6	received by this Authority on	27 01 2006 with letter of 27.01.2006			
		nos *	received by this Authority on				
	$\boxtimes$	the drawings:					
		sheets 1/3-3/3		as originally filed/furnished			
		sheets*					
		sheets*					
		a sequence listing and/or any related table(s) - see Supple	mental Box Relating to Sequence I	isting			
3.	3. The amendments have resulted in the cancellation of:						
		the description, pages					
	the claims, nos.						
	the drawings, sheets/figs						
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
4.		This report has been established as if (some of) the ame they have been considered to go beyond the disclosure as					
		the description, pages					
		the claims. nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
*	If it	em 4 applies, some or all of those sheets may be marked "si					

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/011352

Industrial applicability (IA)  Claims  1-6  Claims  1-6  Y  N    Claims  N    Claims  1-6  Y  N    Claims  N    Claims  N     Claims  N    Claims  N     Claims  N    Claims  N    Claims  N  N     Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N    Claims  N   Claims  N   Claims  N   Claims  N   Claims  D1: US-B-6509742 (Ebizuka et alia), 21 January 2003  D2: US-A-4859933 (Taylor et alia), 22 August 1989  D3: US-B-6268738 (Gunthorpe et alia), 31 July 2001  D4: DD-A-283869 (Rhode & Schwarz GmbH), 27 October 1983   2. Novelty  2.1 Claim 1  2.1.1 Document D1 discloses a method for measuring radio interference levels in a particular frequency					
Inventive step (IS)  Claims  Claims  Industrial applicability (IA)  Claims  Claims  1-6  Claims  1-6  Claims  No  Claims  1-6  Claims  No  Claims  No  Claims  Claims  No  Claims  No  No  No  No  Claims  No  No  No  No  Claims  No  No  No  Claims  No  No  No  No  No  Claims  No  No  No  No  No  No  Claims  No  No  No  No  No  No  Claims  No  No  No  No  No  No  No  Claims  No  No  No  No  No  No  No  No  No  N					
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interference levels in a particular frequency					
range (cf. column 3, lines 23-45) in that tuning					
is carried out during a preliminary measurement of					
the frequency range (cf. column 3, lines 23-27,					
and also figure 1, "Spectrum Analyzer" (16)), the					
measured level of the signal being measured is					
sensed at each measurement frequency (cf. column					
3, lines 23-24, "measures the peak field					
intensity") and compared with a threshold value					
(cf. column 3, lines 33-36, "at which the peak					
field intensity exceeds a predetermined					

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

threshold...", "the peak field intensity" being measured by a spectrum analyser (cf. column 3, lines 23-27)), and when the threshold value is exceeded by the measured level, the level measured at the corresponding measurement frequency is identified as a radio interference level (cf. column 3, lines 33-36, "The pre-set frequency refers to...", thus this frequency must be retained and identified); in a post-measurement step (cf. column 3, line 28, "The quasi-peak measuring section...at a pre-set frequency (a specific frequency determined in advance)..."), each identified radio interference level is more precisely measured to pinpoint its variation in time (see observation 1), the centre frequency (cf. column 3, lines 28-30, "The quasi-peak measuring section measures...at a pre-set frequency", the "pre-set frequency" representing the centre frequency, cf. also figure 12, step 610) of the measurement frequency range used during post-measurement being reset to the centre frequency of the changing radio interference level newly determined during the preceding preliminary measurement (cf. column 3, lines 28-37) for each of the identified radio interference levels (see observation 2 below).

**Observation 1:** In D1, column 4, lines 5-19, the behaviour of measured signal forms measured at different points in time is analysed ("...compare a waveform...with a waveform...").

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Box No. V

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Observation 2: D1 (cf. column 3, lines 23-62) indicates that a preliminary measurement is first carried out (cf. column 3, lines 23-27), then a post-measurement is carried out for a peak which exceeds a threshold value (cf. column 3, lines 28-45). An error message is issued when the post-measurement result (QP measurement) deviates too strongly from the preliminary measurement result (peak field intensity measuring) (cf. column 3, lines 46-62). Consequently, post-measurement is carried out for each identified radio interference level.

- 2.1.2 The subject matter of claim 1 differs from D1 by the following features:
  - post-measurement is cyclically repeated in alternation with the preliminary measurement,
  - the centre frequency is traced for determining the frequency drift.
- 2.1.3 Unlike in claim 1, in the method described in D2 there is no separation between preliminary measurement and post-measurement, but rather the repeated measurement of the individual intensity levels over the entire frequency range (cf. column 3, lines 1-43). The object of D2 is to determine whether two signals measured at different points in time represent the same signal (cf. column 3, lines 5-9). The subject matter of claim 1 thus differs from D2 by at least the following features:

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- post-measurement is cyclically repeated in alternation with the preliminary measurement;
- the centre frequency of the post-measurement is traced for determining the frequency drift.
- 2.1.4 In D3, only the peak values which exceed a minimal value and enclose a particular surface in a window (cf. column 5, lines 33-37) are taken into account for post-measurement. The subject matter of claim 1 thus differs from D3 by the following features:
  - all "measured levels of the signal being measured" are compared with the threshold value;
  - the centre frequency is traced for determining the frequency drift.
- 2.1.5 In D4, preliminary measurement is interrupted when a signal level is exceeded and post-measurement is carried out (cf. page 1, antepenultimate paragraph). Moreover, post-measurements are carried out only when the maximum and minimum voltage values have different intensities (cf. page 1, penultimate paragraph). The subject matter of claim 1 thus differs from D4 by the following features:
  - post-measurement is cyclically repeated in alternation with the preliminary measurement;
  - all measured levels of the signal being measured are compared with a threshold value;

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- the centre frequency is traced for determining the frequency drift.
- 2.1.6 The subject matter of claim 1 is thus novel and meets the requirements of PCT Article 33(2).
- 2.2 Claim 6

Claim 6 relates to a device equipped to implement all the features of claim 1. The subject matter of claim 6 is thus also novel and meets the requirements of PCT Article 33(2).

2.3 Claims 2-5 are dependent claims and thus likewise meet the requirements of PCT Article 33(2).

## Inventive step

- 3.1 Claim 1
- 3.1.1 The effect of this feature, which goes beyond D1, is that of tracing the variation in time of the radio interference level in a quasi-continuous manner, permitting the frequency drift of the radio interference level to be determined.
- 3.1.2 The technical problem addressed can thus be considered to be that of developing the method described in D1 in such a way that the variation in time of the radio interference level can be traced in a quasi-continuous manner, permitting the frequency drift of the radio interference level to be determined.

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- 3.1.3 D1 does not suggest any reason to trace the frequency drift of the radio interference level in time. Nor does it give any reason to repeat cyclically the post-measurement in alternation with the preliminary measurement. A combination of D1 with one of the documents D2-D4 would also fail to lead to a solution as described in claim 1.
- 3.1.4 The subject matter of claim 1 thus involves an inventive step (PCT Article 33(3)).
- 3.2 Claim 6

Claim 6 relates to a device equipped to implement all the features of claim 1. The subject matter of claim 6 thus also involves an inventive step (PCT Article 33(3)).

- 3.3 Claims 2-5 are dependent claims and thus likewise meet the requirements of PCT Article 33(3).
- 4. Industrial applicability

The subject matter of the above-mentioned claims meets the requirements of PCT Article 33(4).